

## CLAIMS

1. A method for the transmission of data between a camera module and an electronic device, said method comprising the steps of generating image data in the image sensor of the camera module, said image sensor comprising at least one row of pixels, and said image data comprising the data generated by said row of pixels, and collecting statistical data from said image data, wherein the method further comprises: transmitting said image data and said statistical data from the camera module to the electronic device essentially at the same time.
2. A method according to claim 1, wherein said image data and said statistical data are transmitted interlaced with each other on at least one common bus.
3. A method according to claim 2, wherein said image data and said statistical data are transmitted in the same data frame, said data frame comprising at least one image data unit, at least one statistical data unit, and at least one synchronization code to separate said image data unit from said statistical data unit.
4. A method according to claim 3, wherein said image data unit comprises image data generated by at least one said row of pixels and that said statistical data unit comprises statistical data for said image data generated by at least one row of pixels.
5. A method according to claim 4, wherein said row of pixels is a vertical or horizontal row in said image sensor.
6. A method according to claim 5, wherein said data frame is transmitted from the camera module to the electronic device in the form of a serial synchronized differential signal.

7. A method according to claims 2 to 6, wherein the camera module and the electronic device are integrated into one single device and that said bus is a device-internal bus.
- 5 8. A method according to claim 7, wherein said transmitted statistical data is used as the generation basis for at least one parameter related to image processing.
9. A method according to claim 8, wherein said at least one image-processing parameter created is used for the processing of the image to be generated.
- 10 10. A method according to claim 9, wherein said at least one image-processing parameter is used for adjusting the image sensor of the camera module to generate image data for the next image.
- 15 11. A device comprising a camera module and an electronic device, comprising means for generating image data in the image sensor of the camera module, said image sensor comprising at least one row of pixels and said image data comprising the data generated by said rows of pixels, means for collecting statistical data on said image data, wherein the device further
- 20 comprises means for transmitting image data and statistical data from the camera module to the electronic device essentially at the same time.
12. A device according to claim 11, wherein said data transmission means are implemented for transmitting said image data and said statistical data in the
- 25 same data frame, said data frame comprising at least one image data unit, at least one statistical data unit, and at least one synchronization code to separate said image data unit from said statistical data unit.
13. A device according to claim 12, wherein said data frame comprises said
- 30 image data and said statistical data interlaced with each other and that said data frame is transmitted from the camera module to the electronic device on at least one bus.

10004667-120504

14. A device according to claim 13, wherein said data transmission means are additionally implemented for transmitting said data frame from the camera module to the electronic device in the form of a serial synchronized differential signal.
- 5
15. A device according to claims 11 to 14, wherein the device also comprises means for generating an image-processing parameter from the transmitted statistical data.
- 10
16. A device according to claim 15, wherein in addition, the device comprises means for image data processing to process the transmitted image data based on said image-processing parameter.
17. A device according to claim 16, wherein said means for image data processing have been implemented for processing the image to be generated.
- 15
18. A device according to claim 17, wherein said means for image data processing have additionally been implemented to control the image sensor in acquiring the next image.
- 20
19. A device according to claims 11 to 18, wherein said device is a mobile communications terminal.
- 25
20. A method according to claim 19, wherein said mobile communications terminal and camera module are integrated into one single device and that said bus is a device-internal bus.